

SEQUENCE LISTING

_															
	<110>	NAKAMURA	, Koji e	t al.											
	<120>	METHOD OF DETECTING LIVER CANCER, DIAGNOSTIC FOR LIVER CANCER AND REMEDY FOR CANCER													
	<130>	0760-0355PUS1													
		US 10/580,567 2006-05-26													
		PCT/JP2004/017499 2004-11-25													
	<160>	10													
	<170>	PatentIn version 3.1													
	<211> <212>														
		CDS (174)(1322)												
	<400> tctaaa	1 ggag gtgg	agagcg c	accgcag	ıcc cg	gtgca	gcc	cggt	gcag	icc c	ctgg	ctttcc	60		
	cctcgc	tgcg gccc	gtgccc c	ctttcgc	gt cc	gcaac	cag	aago	ccag	ıtg d	ggcg	gccagg	120		
	agccgg	accc gcgc	ccgcac c	gctcccg	ıgg ac	cgcga	ccc	cggc	cgcc	ca g	1	atg Met 1	176		
		g acc gaa a Thr Glu 5											224		
		c agc acc s Ser Thr 20			u Cys								272		
		a ttc tgc y Phe Cys											320		
		t ccc ctt y Pro Leu				Thr							368		
		c tgt gga u Cys Gly											416		

gly aaa	gag Glu	ctc Leu	tgt Cys 85	gat Asp	aga Arg	gat Asp	gtt Val	cgg Arg 90	gcc Ala	tgc Cys	tcc Ser	tcg Ser	gcc Ala 95	ccc Pro	tgt Cys	464
					tgc Cys											512
					tac Tyr											560
					ggc Gly 135											608
					gcc Ala											656
					tgc Cys											704
					ggc Gly											752
					ggc Gly											800
					agc Ser 215											848
				Ser	tac Tyr	Glu	Cys	Leu	Cys	Lys	Pro	Glu	Phe		Gly	896
					aag Lys											944
ctg Leu	ccc Pro	agc Ser 260	ggc Gly	tat Tyr	ggg Gly	ctg Leu	gcc Ala 265	tac Tyr	cgc Arg	ctg Leu	acc Thr	cct Pro 270	gly ggg	gtg Val	cac His	992
					cag Gln											1040
					aaa Lys 295											1088
tgc	ttc	acc	atc	ctg	ggc	gtg	ctc	acc	agc	ctg	gtg	gtg	ctg	ggc	act	1136

.

0,72 -	Phe '	Thr	Ile	Leu 310	Gly	Val	Leu	Thr	Ser 315	Leu	Val	Val	Leu	Gly 320	Thr	
gtg g Val G																1184
cgc t Arg T	Tyr .															1232
agc g Ser G																1280
atg a Met T 370													taa			1322
gcagcgttcc cacagccccc tctagattct tggagttccg cagagcttac tatacgcggt													1382			
ctgtc	ccta	at c	tttg	gtggt	g tt	cgct	catct	c ctt	gtgt	caa	atct	ggt	gaa d	egeta	acgctt	1442
acatatattg tctttgtgct gctgtgtgac aaacgcaatg caaaaacaat cctctttctc											1502					
tctcttaatg catgatacag aataataata agaatttcat ctttaaatga g												1553				
<210> 2 <211> 382 <212> PRT <213> Homo sapiens																
<211><212>	> 3 > P	82 RT	sapi	lens												
<211><212>	> 3 > P: > He	82 RT omo	sapi	lens												
<211><212><213>	> 3 > P: > He	82 RT Omo			Ala	Leu	Leu	Arg	Val 10	Leu	Leu	Leu	Leu	Leu 15	Ala	
<211><212><213> 400	> 3 > P: > He > 2	82 RT omo	Thr	Glu 5				_	10					15		
<211><212><212><213><400>	3 Pi 3 Pi 4 Pi 4 Pi 7 Pi 7 Pi 8 Pi 8 Pi 8 Pi 9 Pi 9 Pi 9 Pi 9 Pi 9 Pi 9 Pi 9 Pi 9	82 RT omo Ala His	Thr Ser 20	Glu 5 Thr	Tyr	Gly	Ala	Glu 25	10 Cys	Phe	Pro	Ala	Cys 30	15 Asn	Pro	
<211><212><212><213><400> Met T 1 The G Gln A Trp G	3 Pi	82 RT OMO Ala His Gly 35	Thr Ser 20	Glu 5 Thr Cys	Tyr Glu	Gly Asp	Ala Asp 40	Glu 25 Asn	10 Cys Val	Phe Cys	Pro Arg	Ala Cys 45	Cys 30 Gln	15 Asn Pro	Pro Gly	
<211><212><212><213><400> Met T 1 The G Gln A Trp G	s 3 P: P: P: P: P: P: P: P: P: P: P: P: P:	82 RT omo Ala His Gly 35	Thr Ser 20 Phe	Glu 5 Thr Cys Leu	Tyr Glu Cys	Gly Asp Asp 55	Ala Asp 40 Gln	Glu 25 Asn Cys	10 Cys Val	Phe Cys Thr	Pro Arg Ser 60	Ala Cys 45 Pro	Cys 30 Gln	Asn Pro Cys	Pro Gly Leu	

Cys Ala Asn Asn Gly Thr Cys Val Ser Leu Asp Gly Gly Leu Tyr Glu
100 105 110

Cys Ser Cys Ala Pro Gly Tyr Ser Gly Lys Asp Cys Gln Lys Lys Asp 115 120 125

Gly Pro Cys Val Ile Asn Gly Ser Pro Cys Gln His Gly Gly Thr Cys 130 135 140

Val Asp Asp Glu Gly Arg Ala Ser His Ala Ser Cys Leu Cys Pro Pro 145 150 155 160

Gly Phe Ser Gly Asn Phe Cys Glu Ile Val Ala Asn Ser Cys Thr Pro 165 170 175

Asn Pro Cys Glu Asn Asp Gly Val Cys Thr Asp Ile Gly Gly Asp Phe
180 185 190

Arg Cys Arg Cys Pro Ala Gly Phe Ile Asp Lys Thr Cys Ser Arg Pro 195 200 205

Val Thr Asn Cys Ala Ser Ser Pro Cys Gln Asn Gly Gly Thr Cys Leu 210 215 220

Gln His Thr Gln Val Ser Tyr Glu Cys Leu Cys Lys Pro Glu Phe Thr 225 230 235 240

Gly Leu Thr Cys Val Lys Lys Arg Ala Leu Ser Pro Gln Gln Val Thr 245 250 255

Arg Leu Pro Ser Gly Tyr Gly Leu Ala Tyr Arg Leu Thr Pro Gly Val 260 265 270

His Glu Leu Pro Val Gln Gln Pro Glu His Arg Ile Leu Lys Val Ser 275 280 285

Met Lys Glu Leu Asn Lys Lys Thr Pro Leu Leu Thr Glu Gly Gln Ala 290 295 300

Ile Cys Phe Thr Ile Leu Gly Val Leu Thr Ser Leu Val Val Leu Gly 305 310 315

Thr Va	al Gly	Ile	Val 325	Phe	Leu	Asn	Lys	Cys 330	Glu	Thr	Trp	Val	Ser 335	Asn		
Leu Ar	g Tyr	Asn 340	His	Met	Leu	Arg	Lys 345	Lys	Asn	Leu	Leu	Leu 350	Gln	Tyr		
Asn Se	er Gly 355	Glu	Asp	Leu	Ala	Val 360	Asn	Ile	Ile	Phe	Pro 365	Glu	Lys	Ile		
Asp Me		Thr	Phe	Ser	Lys 375	Glu	Ala	Gly	Asp	Glu 380	Glu	Ile				
<210> 3 <211> 21 <212> DNA <213> Artificial Sequence																
<220> <223>																
<400> 3 cgcgtccgca accagaagcc c													21			
<210><211><211><212><213>	> 25															
<220> <223>	synt) cDNA		c ol:	igoDl	NA p	rime	r use	ed fo	or ar	mpli:	fica	tion	of 1	human	dlk	
<400> aagctt	<400> 4 aagcttgatc tcctcgtcgc cggcc													25		
<210><211><212><213>	5 19 DNA Arti:	ficia	al Se	equei	nce											
<220> <223>	synt) cDNA		c ol:	igoDl	NA pi	rime	r use	ed fo	or an	mpli:	fica	tion	of 1	human	dlk	
<400> agagct	5 caac	aagaa	aaac	С												19

```
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> synthetic oligoDNA primer used for amplification of human dlk
<400> 6
gcgtatagta agctctgagg
                                                                     20
<210> 7
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
<223> synthetic oligoDNA primer used for amplification of human dlk
       cDNA
<400>
                                                                     33
agcttgacta caaggacgac gatgacaagt gag
<210> 8
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
      synthetic oligoDNA primer used for amplification of human dlk
<223>
       cDNA
<400> 8
                                                                     33
tcgactcact tgtcatcgtc gtccttgtag tca
<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Primer used in the construction of a vector expressing human FA1
<400> 9
cgcgtccgca accagaagcc c
                                                                     21
<210> 10
<211> 28 -
<212> DNA
<213> Artificial Sequence
<220>
<223> Primer used in the construction of a vector expressing human FA1
```